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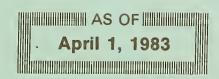
# Water Supply Outlook For Idaho





Cooperating with

IDAHO SOIL CONSERVATION DISTRICTS IDAHO DEPARTMENT OF WATER RESOURCES NOAA, NATIONAL WEATHER SERVICE



#### TO RECIPIENTS OF WATER SUPPLY OUTLOOK REPORTS:

Most of the usable water in western states originates as mountain snowfall. This snowfall accumulates during the winter and spring, several months before the snow melts and appears as streamflow. Since the runoff from precipitation as snow is delayed, estimates of snowmelt runoff can be made well in advance of its occurrence. Streamflow forecasts published in this report are based principally on measurement of the water equivalent of the mountain snowpack.

Forecasts become more accurate as more of the data affecting runoff are measured. All forecasts assume that climatic factors during the remainder of the snow accumulation and melt season will interact with a resultant average effect on runoff. Early season forecasts are therefore subject to a greater change than those made on later dates.

The snow course measurement is obtained by sampling snow depth and water equivalent at surveyed and marked locations in mountain areas. A total of about ten samples are taken at each location. The average of these are reported as snow depth and water equivalent. These measurements are repeated in the same location near the same dates each year.

Snow surveys are made monthly or semi-monthly from January 1 through June 1 in most states. There are about 1900 snow courses in Western United States and in the Columbia Basin in British Columbia. Networks of automatic snow water equivalent and related data sensing devices, along with radio telemetry are expanding and will provide a continuous record of snow water and other parameters at key locations.

Detailed data on snow course and soil moisture measurements are presented in state and local reports. Other data on reservoir storage, summaries of precipitation, current streamflow, and soil moisture conditions at valley elevations are also included. The report for Western United States presents a broad picture of water supply outlook conditions, including selected streamflow forecasts, summary of snow accumulation to date, and storage in larger reservoirs.

Snow survey and soil moisture data for the period of record are published by the Soil Conservation Service by states about every five years. Data for the current year is summarized in a West-wide basic data summary and published about October 1 of each year.

# COVER PHOTO: Fresh powder snow on Elephant Mountain, near the West Fork of Hyalite Creek in Montana.

#### PUBLISHED BY SOIL CONSERVATION SERVICE

The Soil Conservation Service publishes reports following the principal snow survey dates from January 1 through June 1 in cooperation with state water administrators, agricultural experiment stations and others. Copies of the reports for Western United States and all state reports moy be obtained from Soil Conservation Service, West Technical Service Center, Room 510, 511 N.W. Broadway, Portland, Oregon 97209.

Copies of state and local reports may also be obtained from state offices of the Soil Conservation Service in the following

STATE ADDRESS

Alaska Room 129, 2221 East Northern Lights Blvd., Anchorage, Alasko 99504

Arizona Room 3008, Federal Building, 230 N. First Ave., Phoenix, Arizona 85025

Colorodo (N. Mex.) P. O. Box 17107, Denver, Colorado 80217

Idaho Room 345, 304 N. 8th. St., Boise, Idaho 83702

Nevada P. O. Box 4850, Reno, Nevada 89505

Montana

Oregon 1220 S. W. Third Ave., Portland, Oregon 97204

Utah 4420 Federal Bldg., 125 South State St., Salt Lake City, Utoh 84138

P. O. Box 98, Bozeman, Montana 59715

Washington 360 U. S. Court House, Spokane, Washington 99201

Wyoming P. O. Box 2440, Casper, Wyoming 82602

#### PUBLISHED BY OTHER AGENCIES

Water Supply Outlook reports prepared by other agencies include a report for California by the Snow Surveys Branch, California Department of Water Resources, P.O. Box 388, Sacramento, California 95802 --- for British Columbia by the Ministry of the Environment, Water Investigations Branch, Parliament Buildings, Victoria, British Columbia V8V 1X5 --- for Yukon Territory by the Department of Indian and Northern Affairs, Northern Operations Branch, 200 Range Road, Whitehorse, Yukon Territory Y1A 3V1 --- and for Alberta, Saskatchewan, and N.W.T. by the Water Survey of Canada, Inland Waters Branch, 110-12 Avenue S.W, Calgary, Alberta T3C 1A6.



# WATER SUPPLY OUTLOOK

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# WATER SUPPLY OUTLOOK FOR IDAHO

and
FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS

#### Issued by

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## WATER SUPPLY OUTLOOK for IDAHO



GENERAL STATEMENT FOR APRIL 1, 1983

In general, the April 1 snow surveys show Idaho's snowpack to be near normal to well above normal throughout the State except for the Clearwater and Spokane River drainages in northern Idaho which are only 73 percent and 81 percent of average respectively. The remainder of the State ranges from a low of 86 percent of normal on the Cub River drainage in southeastern Idaho to a high of 215 percent of average on the Owyhee River drainage in the southwestern part of the State with most basins in the Snake River drainage ranging from 99 to 154 percent of normal.

The month of March was wet and mild with the State receiving 200 percent of normal precipitation for the month. The range was from 105 percent at Salmon to 457 percent at Ketchum. For the water year, Idaho is now at 132 percent of average. Temperatures were mild, averaging  $2^{\circ}F$ . to  $5^{\circ}F$ . above normal for the month.

Soil moisture conditions remain excellent in most of the State with the lower and middle elevation zones being wet or saturated and the higher elevations being damp and unfrozen.

Reservoir carryover storages continue to be near to well above normal in most reservoirs.

The combination of good reservoir carryover storage and near to above normal snowpack conditions assures Idaho's water supplies for this season

to be good to excellent across most of the State. The exceptions are the Clearwater and Spokane River drainages which are forecast to be only 81 and 88 percent of normal respectively. Other forecasts in the State range from 90 percent of average on the Snake near Heise to 194 percent on the inflow to Magic Reservoir.

A potential for high volume flows does exist on several Idaho streams. April and May weather conditions will dictate how much if any flooding will occur. Several areas of concern are the Payette, Big Wood, Little Wood, Big Lost, Bruneau and Owyhee River drainages.

# $\begin{array}{c} \text{VALLEY PRECIPITATION } \underline{1}/\\ \\ \text{Division Averages and Departures} \end{array}$

-	-	4
In	l n	ches
4.11	4.11	CHES

	Mar	vinter ch 1983 Departure <u>2</u> /	Nov. 82	1 - Winter - March 1983 Departure 2/
Kootenai, Canada & U.S.	2.17	+ .43	13.24	15
Flathead	1.73	+ 2.20	9.38 <sup>.</sup>	- 1.35
Clark Fork	1.26	+ .04	6.81	- 1.19
Pend Oreille-Spokane	3.48	+ .95	18.97	+ 1.42
Upper Snake	2.73	+ 1.21	11.13	+ 1.02
Snake River Plain	1.91	+ 1.13	6.17	+ 1.09
Salmon-Payette-Boise	3.96	+ 2.23	15.33	+ 3.54
Clearwater	3.04	+ .08	14.77	- 3.11
Owyhee-Malheur	2.70	+ 1.85	8.37	+ 2.70

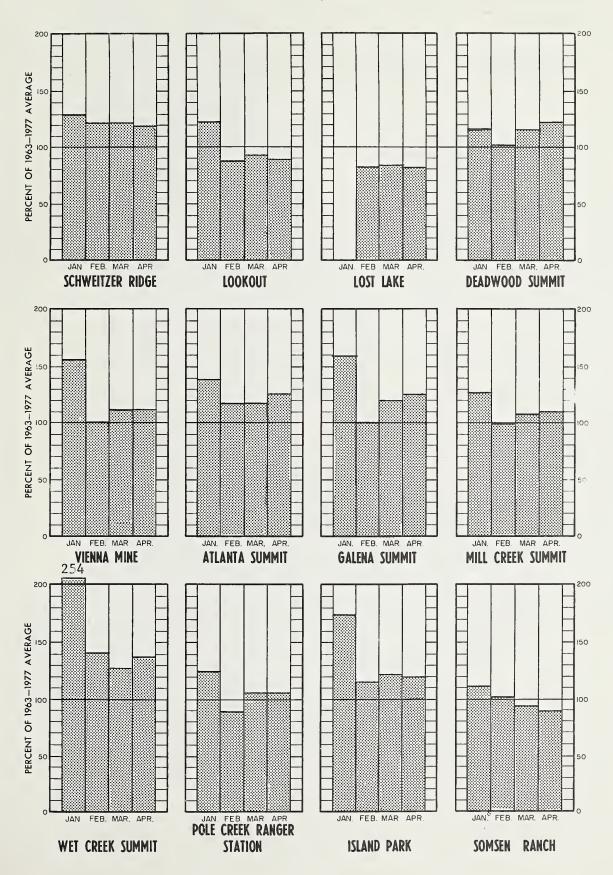
 $<sup>\</sup>underline{1}/$  Preliminary analysis and data by the National Weather Service and Meteorlogical Service of Canada.

 $<sup>\</sup>underline{2}$ / Depaarture from 15-year (1963-77) drainage division average.

#### SNOW WATER DEPTHS ACCUMULATION For Selected Snow Courses

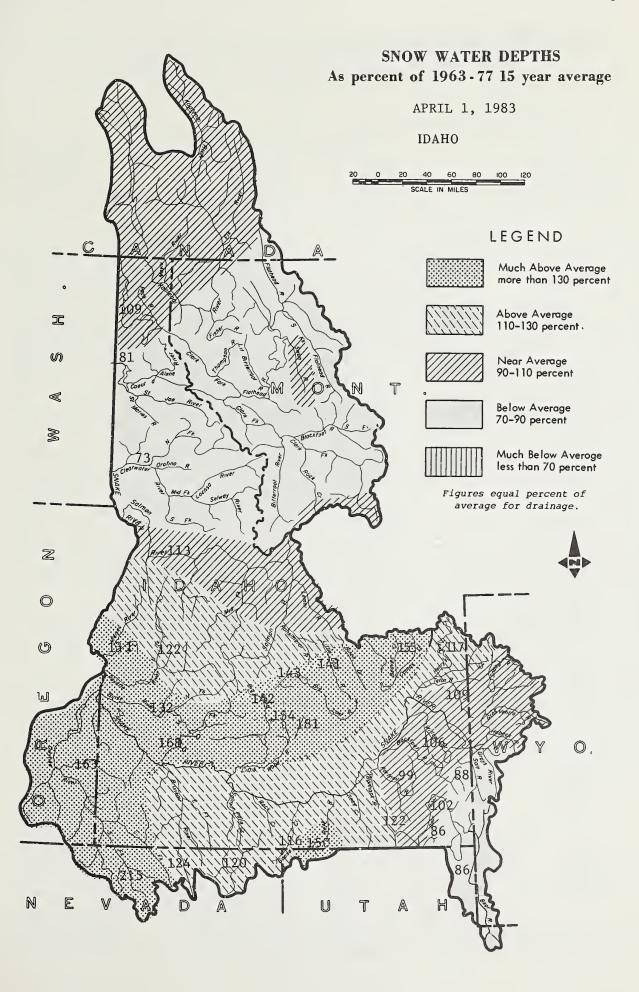
As Compared To 1963 - 1977 15 Year Average

APRIL 1, 1983



### COMPARISON of SNOW COVER

RIVER BASIN WATERSHED	NO.OF COURSES AVERAGED	THIS YEARS SNOW WATER  EXPRESSED AS PERCENT OF:  LAST YEAR 1963-77 AVERAGE		
		LAST YEAR	1963-// AVERAI	
UPPER COLUMBIA RIVER BASIN				
Kootenai River	38	79	. 86	
Pend Oreille River	136	73	82	
Clark Fork River	93	68	79	
Flathead River Priest River	43 6 <b>-</b> 7	81 99	85	
Spokane River	14 - 16	85	109 81	
Hayden Creek	4	96		
LOWER SNAKE RIVER BASIN				
Palouse River	3	42	43	
Clearwater River	20 - 22	69	73	
Salmon River	27 - 32	91	113	
Lemhi River	6	76	105	
MIDDLE SNAKE RIVER BASIN - Northside				
Little Lost River	5	111	141	
Big Lost River	9	117	143	
Fish Creek Little Wood River	2 4	119 111	181 154	
Big Wood River	11 - 13	106	142	
Boise River	17 - 21	99	132	
Canyon Creek	3	107	168	
Payette River Weiser River	14 - 17 6 - 9	103 122	122 131	
	4 - 5	127	137	
Mann Creek	4 - 5	127	137	
MIDDLE SNAKE RIVER BASIN - Southside				
Raft River	5 - 7	107	150	
Goose-Trapper Creek	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	93 87	116 120	
Salmon Falls Creek Bruneau River	4 - 5	82	124	
Ovyhee River	7	113	215	
Jordan Creek	3	115	163	
UPPER SNAKE RIVER BASIN				
Snake Basin - Above Palisades Reservoir	22	69	86	
Camas-Beaver Creeks	3	155	155	
Henrys Fork River	7 - 11	97	117	
Teton River	8 <b>-</b> 9 5 <b>-</b> 9	82 85	109 106	
Willow Creek Blackfoot River	3 - 7	70	88	
Portneuf River	4 - 9	69	99	
GREAT BASIN				
Bear River - Upper	6	71	86	
Bear River - Lower	25	70	106	
Montpelier Creek	6 7	67 74	92 102	
Mink Creek Cub River	3 - 4	69	86	
Malad River	4 - 7	89	122	

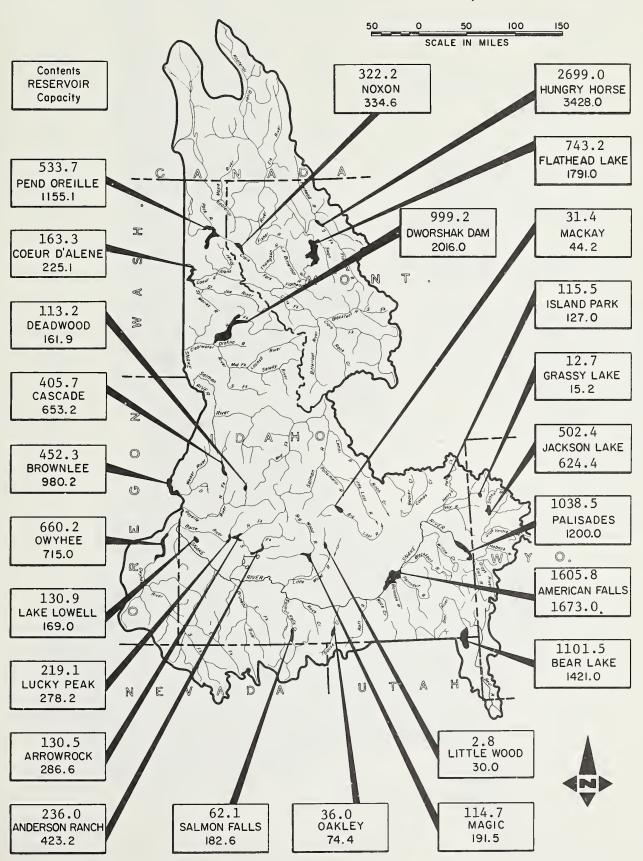


## RESERVOIR STORAGE (1,000 Ac. Ft.)

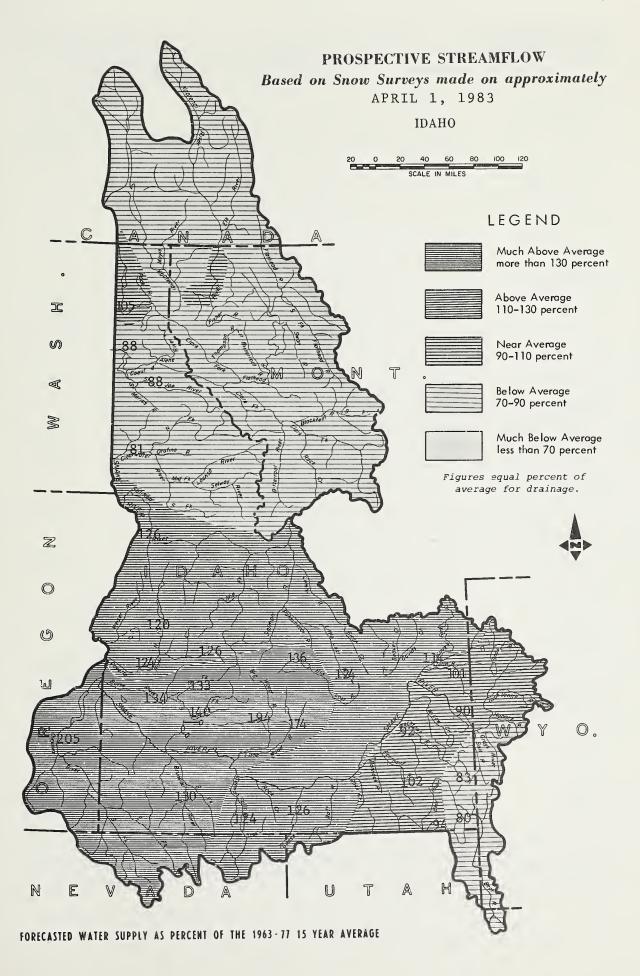
RESERVOIR	USABLE CAPACITY	THIS YEAR	EASURED (First of Mor	1963-77 AVERA
UPPER COLUMBIA BASIN				
Clark Fork - Pend Oreille				
Hungry Horse	3428.0	2699.0	2158.0	2016.0
Flathead	1791.0	743.2	750.4	775.7
Pend Oreille Noxon	1155.1 334.0	533.7 322.2	549.0 312.1	432.9 191.9
Spokane				
Coeur d'Alene	225.1	163.3	166.7	149.9
SNAKE BASIN				
Snake				
Jackson Lake	624.4	502.4	459.6	612.9
Palisades	1200.0	1038.5	404.4	815.9
American Falls Island Park	1673.0 127.0	1605.8 115.5	1548.0 123.1	1390.8 122.5
Grassy Lake	15.2	12.7	13.0	10.8
Brownlee	980.2	452.3	359.0	395.5
Goose-Trapper Creeks				
Oakley	74.4	36.0	31.4	33.1
Salmon Falls Creek				
Salmon Falls	182.6	62.1	33.8	63.7
Big Lost				
Mackay	44.2	31.4	31.2	32.9
Big Wood			100.0	100.0
Magic	191.5	114.7	109.3	129.9
Little Wood	30.0	2.8	18.4	18.5
Little Wood	30.0	2.0	10.4	10.5
Fish Creek	1/ /	10.2	8.4	
Carey Valley	14.4	10.3	0.4	
Boise	423.2	236.0	212.6	248.5
Anderson Ranch Arrowrock	286.6	130.5	137.1	226.6
Lucky Peak Lake Lowell (Deer Flat)	278.2 169.0	219.1 130.9	97.2 128.8	115.5
Owyhee				
0wyhee	715.0	660.2	701.3	553.2
Payette				
Cascade Deadwood	653.2 161.9	405.7 113.2	356.9 100.0	305.4 92.0
Weiser				
Mann Creek	11.1	6.4	8.8	
Clearwater		¥		
Dworshak	2016.0	999.2	157.9	
GREAT BASIN				
Bear				
Bear Lake	1421.0	1101.5	957.6	1039.5
*Period of Record.				

## RESERVOIR STORAGE

USABLE CONTENTS (1,000 Acre Feet)
APRIL 1, 1983



STREAMFLOW FORECASTS			THIS YEAR			RECORD
DASIN STREAM and/or FORE	CAST BOINT	F OR E	Percent of	FORECAST	THOUSAND A	
BASIN, STREAM and/or FORE	CAST POINT	Acre Feet	Average	PERIOD	Last Year	Average +
	<u>u</u>	PPER COLUMBIA BA	SIN			
KOOTENAI RIVER						
Leonia	(at)	8060	91	Apr-Sep		8858
		7010 5600	91	Apr-Jul Apr-Jun	<del>-</del> -	7708 6144
		3000		Apr. Juli		0144
PEND OREILLE RIVER Clark Fork River						
Whitehorse Rapids	(at)	10700 9720	78 78	Apr-Sep Apr-Jul		13781 12519
		8300	78	Apr-Jun		10633
Priest River						
Priest River $\frac{1}{2}$	(at)	940 883	105 105	Apr-Sep Apr-Jul		895 841
ODONANT DIVER						
Post Falls 2/	(at)	2570	88	Apr-Sep		2910
		2470	88	Apr-Ju1		2802
St. Joe River Calder	(at)	1155	88	Apr-Sep		1309
Carder	(at)	1095	88	Apr-Jul		1238
		SNAKE RIVER BASI	N			
SNAKE RIVER - MAIN STEM						
Moran $\frac{3}{}$ / Palisades Inflow $\frac{3}{}$ /	(at)	857 3477	95 90	Apr-Sep Apr-Sep		903 3863
Heise 4/	(nr)	3740	90	Apr-Sep		4139
Blackfoot 5/	(nr)	3175 5160	90 92	Apr-Jul Apr-Sep		3527 5612
Blackloot 3/	( /	4210	92	Apr-Jul		4579
Henrys Fork		04.0				707
Ashton $\underline{6}/$	(nr)	840 624	114 114	Apr-Sep Apr-Jul		737 547
Rexburg 7/	(nr)	1740	113	Apr-Sep		1534
		1360	113	Apr-Jul		1202
Teton South Leigh Creek	(ab)	203	101	Apr-Sep		201
South Belgh Oreck	(45)	152	101	Apr-Jul		150
Portneuf River						100
Topaz	(at)	110 90	102 102	Mar-Sep Mar-Jul	 - <del>-</del>	108 88
Oakley Reservoir Inflow		39	126	Apr-Sep		31
Oakley Reservoir Inflow		35	125	Apr-Jul		28
Salmon Falls Creek						0.5
· San Jacinto	(nr)	118 112	124 124	Mar-Sep Mar-Jul		95 90
		105	124	Mar-Jun		85
Bruneau River		225	120	Man Car		251
Hot Springs	(nr)	325 309	130 130	Mar-Sep Mar-Jul		238
Little Lost River						
Howe	(nr)	56 42	124 124	Apr-Sep Apr-Jul		45 34
Wet Creek	(b1)	42 50.5	123	Apr-Sep		41
		40.5 32	123 123	Apr-Jul Apr-Jun		33 26
		32	123	Apr Jun		20



TREAMFLOW FORECASTS		THIS YEAR		PAST RECORD		
BASIN, STREAM and/or FOR	Thousand	Percent of	FORECAST	THOUSAND A		
BASIN, STREAM allo, OF FOR	Acre Feet	Percent of Average	PERIOD	Last Year	Average †	
Big Lost River						
Howell Ranch	(at)	305	136	Apr-Sep		. 225
		271	136	Apr-Jul		199
		209	136	Apr-Jun		154
Mackay <u>8</u> /	(nr)	278	136	Apr-Sep		204
Big Wood River		620	194	Anw-Con		319
Magic Reservoir Inflow 9/		590	195	Apr-Sep Apr-Jul		303
d+tle Head Diver	(nr)	186	174	Apr-Sep		107
Carey 10/	(111)	172	174	Apr-Jul		99
carey 107		151	174	Apr-Jun		87
oise River						
Twin Springs	(nr)	975	133	Apr-Sep		733
. 0		900	133	Apr-Jul		676
Boise 11/	(nr)	2219	134	Apr-Sep		1656
_		2060	134	Apr-Jul		1536
		1820	134	Apr-Jun		1360
outh Fork		070	1.40	A C		622
Anderson Dam 12/	(at)	870 815	140 140	Apr-Sep Apr-Jul		582
l - Disease						
wyhee River Gold Cr., Nv 13/	(nr)	38	165	Apr-Jul		23
Owyhee, Nv 13/	(nr)	145	181	Apr-Jul		80
Lake Owyhee		775	198	Apr-Sep		392
net inflow $14/$		750	205	Apr-Jul		431
Rome	(at)	740	205	Apr-Jul		361
ayette River	()	2306	124	Apr-Sep		1860
Horseshoe Bend 15/	(nr)	2134	124	Apr-Jul		1721
North Fork						
Cascade 16/	(at)	677	120	Apr-Sep		564
043C44C <u>107</u>	(32)	635	120	Apr-Jul	·	529
Banks 16/	(nr)	875	121	Apr-Sep		726
_		830	121	Apr-Jul		687
South Fork	(-5)	650	126	Apr-Sep		516
Lowman	(at)	576	126	Apr-Jul		458
√eiser River						
Weiser	(nr)	574	130	Apr-Sep		442
WCIOCI	<b>\</b> ,	537	130	Apr-Jul		414
Salmon River						71.00
Whitebird	(at)	9080	126	Apr-Sep		7188
		8210	126	Apr-Jul		6497
Clearwater River		7050	01	Apr-Son		8672
Spalding	(at)	7050 6620	81 81	Apr-Sep Apr-Jul		8192
		GREAT BASIN				
		ONE DIOLI				
AR RIVER Harer	(at)	265	80	Apr-Sep		332
патег	(41)	200				

STREAMFLOW FORECASTS			THIS YEAR	PAST RECORD		
		FORE	CAST C	FORECAST	THOUSAND A	CRE FEET
BASIN, STREAM and/or	FORECAST POINT	Thousand Acre Feet	Thousand Percent of PERIOD		Last Year	Average +
Montpelier Creek Montpelier	(nr)	11.5	83	Apr-Sep		13.9
Cub River Preston	(nr)	47 44	95 94	Apr-Sep Apr-Jul		50 47

- 1/ Observed flow corrected for storage in Priest Lake.
- 2/ Observed flow corrected for storage in Coeur d'Alene Lake.
- $\frac{3}{4}$ / Corrected for storage in Jackson Lake.  $\frac{4}{4}$ / Corrected for storage in Jackson Lake and Palisades.
- 5/ Corrected for storage in Jackson Lake, Palisades, Island Park, Henrys Lake, Grassy Lake and diversions between Heise and Blackfoot.
- 6/ Corrected for storage in Henrys Lake and Island Park Reservoir.
- $\overline{/}$ / Corrected for storage in Henrys Lake and Island Park, Grassy Lake and diversions between Ashton and Rexburg.
- 8/ Observed flow corrected for storage in Mackay Reservoir.
- $\overline{9}/$  Combined flow Big Wood River nr. Bellevue and Camas Creek nr. Blaine.
- 10/ Corrected for storage in Little Wood Reservoir.
- 11/ Corrected for storage in Arrowrock, Anderson Ranch and Lucky Peak.
- 12/ Corrected for storage in Anderson Ranch Reservoir.
- 13/ Corrected for storage in Wildhorse Reservoir.
- $\overline{14}/$  From Bureau of Reclamation records of inflow.  $\overline{15}/$  Corrected for storage in Cascade and Deadwood Reservoirs.
- 16/ Corrected for storage in Cascade Reservoir.
- Cooperative forecasts released by Soil Conservation Service and National Weather Service.

SNOW			ſ	THIS YEAR		PAST RI	
	and: or SNOW COURSE	T -	, Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Conte	
NAME & DRA	INAGE	Elevation	<u> </u>			Last Year	Average
above Burke	Coeur d'Alene	4100	3/31	41	15.4	21.4	24.7
Above Gilmore	Lemhi	8240	4/1	42	11.5	14.2	10.6
Above Roland	St. Joe	4350	4/1	69	29.8	35.8	35.2
Allen Ranch	Blackfoot	6470	3/30	26	10.5	13.3	
Antelope Ridge	Owyhee	6180	3/26	22	7.5	10.4	6.2
Aspen Grove	Willow	6500	4/1	43	14.2	17.4	12.1
Aspen Hall Pass	Lemhi	8200	4/1	46	11.7	13.8	10.6
Atlanta Summit	Boise	7600	3/28	126	45.6	50.1	36.2
Atlanta Townsite	Boise	5370	4/1	36	14.2	14.2	
Austin Brothers Ranch	Blackfoot	6400	3/30	23	8.8	11.2	8.9
Bad Bear	Boise	4940	3/30	38	14.0	15.9	13.9
Badger Gulch	Trapper	6660	4/5	44	14.6	18.2	13.1
Banner Summit	Payette	7040	4/1	102	35.8	38.7	
Battle Creek	Owyhee	5710	4/5	6	1.2		1.7
Beagle Springs (Mt)	Beaverhead	8850	3/31	40	8.6	12.5	
Bear Basin	Little Salmon	5350	3/31	76	25.8	20.1	
Bear Canyon	Big Lost	7900	4/1	87	28.2	26.7	19.9
Bear Creek (Nv)	Jarbidge	8040	4/1	83	27.8	31.5	21.3
Bear Mountain	Clark Fork	5400	3/28	147	66.1	75.1	64.2
Bear Saddle	Mann Creek	6180	3/28	96	37.5	28.8	
Beaverdam Creek	Portneuf	6120	3/23	25	7.6	12.6	
Below Roland	St. Joe	3920			zailable	14.1	16.5
Bennett Mountain	Canyon Creek	6560	3/26	66	25.2	21.1	17.5
Benton Meadow	Priest	2370	4/1	С	0.0	0.0	5.0
Benton Spring	Priest	4920	4/1	55	22.0	18.9	20.2
Big Creek Summit	Salmon	6580	3/25	118	43.1	51.5	37.5
Big Springs	Henrys Fork	6400	3/30	60	23.2	24.0	22.0
Birch Creek	Willow	6800	4/1	31	9.3	15.9	11.4
Black Bear (Mt)	Madison	7950	3/30	124	48.4	57.4	44.1
Black Canyon	Henrys Fork	7960	3/31	104	40.6		35.4
Black Moose	Henrys Fork	8160	3/31	113	45.2		40.3
Blue Ledge Mine	Beaver-Camas	6900	3/30	80	31.0	16.7	17.8
Blue Ridge	Blackfoot	6780	4/1	65	24.3	28.0	
Bogus Basin	Payette	6340	3/30	102	40.0	29.8	24.5
Bogus Basin Road	Boise	5540	3/30	9	2.6	4.9	2.2
Bone	Willow	6200	4/1	21	7.0	7.0	7.2
Borah (A)	Pahsimeroi	8250	4/1	28	8.4	9.8	
Bostetter Ranger Sta.	Trapper	7500	4/5	71	21.8	28.1	20.2
Boulder Creek	Weiser	5440	3/31	78	27.8	25.4	25.1
Boy Scout Camp	Raft	7740	4/5	100	31.9	20.7	15.8
Breezy Saddle	Clearwater	5010	3/31	86	24.8	30.4	
Brockman Station	Willow	6430	4/1	33	10.4	8.3	
Brundage Mountain	Little Salmon	7560	4/1	152	58.3	57.8	48.6
Bruno Creek	Squaw Creek	7920	3/29	57	19.4		
Buck Meadows	Se1way	5650	3/29	65	20.0	39.5	31.2
Bull Basin (A)	0wyhee	5460	4/5	T	0.1		0.4
Camas Creeks Divide	Big Wood	5710	3/26	49	19.5	17.5	8.8
Camp Creek	Beaver	6580	3/29	55	17.8	11.5	12.0
Cayuse Airstrip	Clearwater	3500	3/29	7	2.0	8.8	9.8
Cedar Creek	Cedar	6820	4/1	26	8.4	12.6	10.0
Chilco Ridge	Hayden	3650	3/30	0	0.0	0.0	
Chimney Creek	Big Wood	6400	3/26	57	24.4	18.8	
Christensen Ranch	Mink	5560	3/27	21	7.4	10.9	7.6
Clear Creek Meadows	Raft	9420	4/5	114	35.8	36.0	23.6
Cliff Canyon	Malad	7200	3/27	63	24.3	14.6	
Cold Springs	Portneuf	7000	3/27	65	23.4	29.0	
Conie Ridge	Hayden	3900	3/30	0	0.0	2.0	
Coolwater Mountain	Lochsa	6030	3/29	100	32.7	44.2	33.0
Copes Camp	Lemhi	7520	4/1	35	8.1	12.6	8.8
Copper Basin	Big Lost	7640	4/1	55	17.9	12.6	10.9
Copper Ridge	Coeur d'Alene	4820	3/31	60	24.7	26.6	29.
Corner Creek	Hayden	3150	3/30	0	0.0	0.0	
Couch Summit	Boise	6840	3/26	74	29.4	20.5	18.
Cozy Cove	Deadwood	5380	4/1	49	19.2	17.5	16.
Crab Creek	Camas-Beaver	6860	3/30	80	28.8	15.2	
Crater Meadows	Clearwater	5960	3/29	98	33.4	45.0	46.
Crawford Ranger Sta.	Payette	4860	3/25	14	5.0	6.5	6.
Crooked Fork	Lochsa	3610	3/31	18	6.6	13.4	14.
Cub River Ranger Sta.	Cub	5450	3/27	17	5.3	10.2	6.
Daniels Creek	Malad	6270	3/27	22	7.2	9.8	
Darby Canyon (Wy)	Teton	8250	4/1	72	25.1	32.1	24.
Deadline (wy)	Salmon Falls	7400	4/1	74	28.5	28.7	22.
DeadTime	Salmon Falls	7450	4/1	81	31.1	29.5	

<sup>(</sup>b) 1963-1977, 15 year period. \* Estimated 1963-77 15 Year Average. (A) Aerial observation Water content estimated.

(22.4	D.A.C.III	L CHOW CONTROL		<del> </del>			Water Conter	CORD
DRAINAGE   NAME		TNAGE	Elevation	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Conter Last Year	Average
					-			
Deadman Gulch		Boise	5600	3/27	63	22.0	20.2	16.8
Deadwood Airstrip Deadwood Summit		Deadwood Deadwood	5360 6860	4/1 4/1	53 148	19.8	18.4	15.6
Dempsey Creek		Portneuf	6100	3/27	34	58.3 10.4	61.5 18.0	47.5 13.0
ollarhide Summit		Big Wood	8420	4/1	108	37.5	38.9	25.1
Oouble Springs Pass		Pahsimeroi	8380	4/1	51	14.1	13.2	11.1:
ry Basin		Mink	7820	3/27	87	30.7	38.5	30.2
ry Creek Flat		Malad	6360	3/27	18	6.2	9.3	5.3
ry Fork		Big Lost	7220	3/31	66	21.4	19.7	16.9
ast Creek		Portneuf	7000	3/27	40	13.2	19.0	
Cast Twin		Palouse	4130	3/30	0	0.0	11.4	9.8
Clk Butte		Clearwater Bear	5550	3/31 3/31	90 78	27.2	35.4	38.8
Cmigrant Summit Cmigration Canyon		Bear	7390 6500	3/31	76 29	26.1 9.8	36.7 16.4	26.0 11.1
airview Guard Stati	on	Little Lost	6750	3/29	20	6.2	6.6	3.2
ish Lake Airstrip		Lochsa	5650	3/29	86	29.0	40.8	41.2
ishpole Lake		Big Lost	9300	4/1	112	40.5	32.1	21.1
orty-nine Meadows		Clearwater	4830	3/31	77	24.4	28.6	32.5
ourth of July Summi	t	Coeur d'Alene	3200	3/31	0	0.0	3.2	8.8
ox Creek	(Nv)	Jarbidge	6750	4/1	41	13.1	14.7	9.9
ranklin Basin	_	Cub	8040	3/27	74	24.6	35.3	28.2
ranklin Basin Snote		Cub	8170	3/27	81	26.5		
reds Mountain alena	(Wy)	Teton Big Wood	8150 7440	3/31 3/28	78 73	28.7 26.2	32.3 23.3	20.7 19.5
alena Snotel		Big Wood	7470	3/28	81	28.2	25.6	19.3
alena Summit		Big Wood	8780	3/28	95	31.4	32.3	25.2
arfield Ranger Sta.		Little Wood	6560	4/1	48	16.1	14.5	10.2
eorge Creek	(Ut)	Raft	8840	4/5	111	35.2	34.5	
eorge Peak	(Ut)	Raft	9000	4/5	122	39.5	44.0	
ibbons Pass	(Mt)	Bitterroot	7100	3/28	66	24.8	30.9	24.8
iveout		Montpelier	6860	4/1	40	11.9	19.0	13.0
iveout Snotel	<b></b> \	Montpelier	6930	4/1	31	9.4		
Goat Creek	(Nv)	Salmon Falls	8880	4/1 3/29	7 <b>1</b> 104	22.0 35.2	29.0 47.8	18.6 49.3
Goat Lake Graham Guard Station		Clearwater Boise	6500 5690	3/29 4/1	50	18.3	19.8	49.3
Graham Ranch		Big Wood	6270	3/28	65	23.4	16.6	14.4
Franite Peak		St. Joe	6000	3/31	127	37.8	44.2	46.8
Grassy Lake	(Wy)	Henrys Fork	7265	3/29	95	35.1	48.3	36.6
lall Creek		Lemhi	7560	4/1	22	7.1	8.4	5.9
lemlock Butte		Clearwater	5810	3/29	108	38.2	52.2	51.3
lilts Creek		Little Lost	8000	3/30	59	17.0		
loodoo Basin	(Mt)	Clark Fork	6000	3/29	109	46.2	65.0	53.6
Hoodoo Creek	(Mt)	Clark Fork Bear	5900	3/29	100	41.4	58.5	49.9 25.6
lorseshoe Basin		Marsh Creek	8000 7980	3/27 4/5	84 104	29.4 36.6	35.7 38.2	26.1
lowell Canyon Lumboldt Gulch		Coeur d'Alene	4250	3/31	33	11.6	15.0	
ummingbird Springs	(Nv)	Jarbidge	8870	4/1	91	28.5	37.1	23.7
lyde Pasture (A)	(211)	Jordan-Owyhee	5760	4/5	21	8.0		3.2
lyndman Creek		Big Wood	7440	3/29	63	21.2	22.1	
daho City Townsite		Boise	4000	3/30	0	0.0	3.1	
Indian Grove		Raft	7560	4/5	62	20.0	15.7	
ndian Meadows		Teton	8240	4/1	115	45.5		37.4
ron Bog		Big Lost	7650	3/31	65	20.8	13.2	14.1
ron Mine Creek		Fish Creek	6300	4/3	52	19.3	15.9 9.5	10.5 5.7
rving Creek Sland Park		Medicine Lodge Henrys Fork	7035 6290	3/28 3/30	38 58	10.4 20.7	20.4	17.2
ackpine Creek	(Wy)	Teton	7350	4/1	70	26.1	29.6	23.0
ackson Peak	(Ny)	Boise	7070	4/1	112	40.5	38.8	33.1
ohnson Creek		Blackfoot	6730	3/30	33	11.3	16.8	
ellogg Peak		Coeur d'Alene	5560	4/1	82	30.0	36.2	35.4
ilgore		Camas Creek	6320	3/30	40	15.2	13.2	11.5
it Carson Pasture		Selway	4950	3/31	15	4.7	13.1	9.1
ruze Meadow		Clearwater	4780	3/31	27	8.5	14.6	16.0
ake Fork		Payette	5290	3/26	49	16.9	16.6	16.9
angford Flat Creek		Salmon Falls	5980	4/1	13	4.4	6.2	34.8
Latham Springs		Henrys Fork	7630 7350	3/30 4/1	92 57	36.4 19.3	23.8	
Lava Creek		Willow Big Lost	7350 6700	3/31	57 46	14.8	9.2	9.4
Leadbelt Leatherman Pass (A)		Pahsimeroi	9860	4/1	88	30.2	27.4	26.1
Leatherman Pass (A) Lemhi Pass	(Mt)	Beaverhead	7480	3/29	27	7.8	10.4	9.9
Lemhi Ridge	(Mt)	Beaverhead	8100	3/31	37	9.3	12.8	10.9
Liberty Spring	()	Mink	8600	3/27	111	40.8	57.6	39.8
ittle Beaver		Montpelier	6970	4/1	47	14.9	22.3	16.3

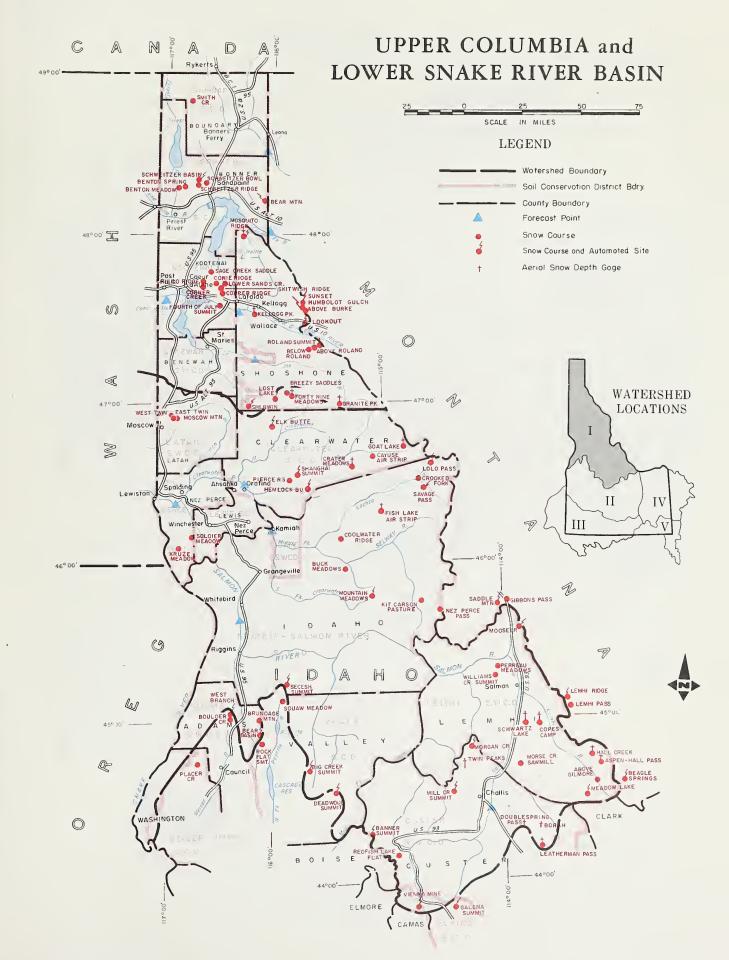
<sup>(</sup>b) 1963-1977, 15 year period. \* Estimated 1963-77 15 Year Average. (A) Aerial observation Water content estimated.

SNOW				-	THIS YEAR	,	PAST RE	
DRAINAGE B	ASIN ar	nd or SNOW COURSE		Date of Survey	Snow Depth	Water Content	Water Content (inches)	
NAME &	DRA	INAGE	Elevation	of Survey	(Inches)	(Inches)	Last Year	Average
ittle Camas Flat		Boise	4940	3/26	15	6.2	8.8	4.0
ogger Springs		Raft	8120	4/5	80	24.8	24.2	
olo Pass		Lochsa	5240	4/2	58	22.0	34.3	32.6
ookout		Coeur d'Alene	5140	3/31	90	33.0	37.6	37.1
ost Garfield		Little Lost	6600	3/29	16	5.4	6.7	3.0
ost Horse	(Mt)	Bitterroot	5940	4/1	77	28.8	45.2	35.2
ost Lake		Clearwater	6110	3/31	152	49.8	57.5	61.8*
ost-Wood Divide		Big Lost	7900	3/28	86	31.2	33.8	24.8
ower Elkhorn		Portneuf	6960	3/27	53	18.4	21.8	14.0*
ower Home Canyon		Montpelier	7640	3/31	41	12.2	19.0	14.9*
ower Pebble		Portneuf	5780	3/27	42	13.1	20.4	13.3*
ower Sands Creek		Coeur d'Alene	3120	4/1	39	16.9	16.4	21.9
ucky Dog		Henrys Fork Rock Creek	6860 6880	3/30 4/1	80 61	31.2	 25.9	26.0
agic Mountain ann Creek		Weiser	6080	3/28	93	23.1 35.4	29.6	19.2
lascot Mine		Big Wood	7780	3/29	93 67	20.6	24.1	27.7* 15.5
CRenolds Reservoir		Teton	6720	3/29 4/1	60	20.5	22.8	20.7*
eadow Lake		Lemhi	9150	4/1	70	21.8	28.0	20.7
ill Creek Summit		Salmon	8800	4/1	82	26.5	33.8	24.1
ink Creek		Portneuf	6410	3/30	58	22.6	29.1	18.3
ontpelier Creek		Montpelier	6540	4/1	22	7.6	9.3	8.4
conshine		Little Lost	7440	3/29	52	15.0	12.2	11.2
oores Creek Summit		Boise	6100	3/30	111	42.4	40.8	33.6
oose Creek		North Fork Salmon	6200	4/1	54	18.4	22.0	17.1
organ Creek		Salmon	7600	4/1	51	15.8	18.9	14.9
orse Creek Sawmill		Salmon	7120	4/1	38	11.2	11.0	9.5
oscow Mountain		Palouse	4410	3/30	41	15.9	19.6	18.0
osquito Ridge		Coeur d'Alene	5200	4/1	108	42.6	41.8	40.2
ount Baldy		Big Wood	8920	3/31	109	35.0	25.1	21.4
ountain Meadows		Selway	6360	3/29	49	14.4	31.6	26.1*
ud Creek		Willow	7100	4/1	74	25.3	28.5	
ud Flat		0wyhee	5730	3/26	18	6.4	8.4	4.9
uldoon		Little Wood	6320	4/1	31	11.1	9.3	7.1
ez Perce Pass	(Mt)	Bitterroot	6570	3/31	42	13.7	24.1	
orth Putnam		Ross Fork	7240	3/31	91	28.6	41.0	
ne Mile Summit		Raft	7330	4/5	35	7.9	9.2	7.6
xford Mountain		Malad	6800	3/27	31	9.0	14.1	9.5
xford Spring		Malad	6740	3/27	34	10.9	16.9	
acksaddle Spring		Teton	8200	4/1	90	34.2		
ebble Creek		Portneuf	6550	3/27	45	14.6	20.5	16.7
erreau Meadows		Salmon	8500	3/30	53	15.5	21.7	
hillips Bench	(Wy)	Teton	8200	3/29	90	29.6.	40.8	30.6*
ierce Ranger Station		Clearwater	3080	3/30	0	0.0	11.5	10.6
ine Creek Pass		Teton	6810	3/31	51	17.4	23.2	18.3
lacer Creek		Weiser	5860	3/27	68	23.2	18.8	18.8
ole Creek Ranger Sta	•	Jarbidge	8360	4/1	72	23.6	30.6	22.5
rairie		Boise	4800	3/31	0	0.0	4.6	3.4
ed Canyon		Owyhee	6650	4/5	27	10.3		5.0
edfish Lake Flat		Salmon	6560	3/28	44	15.9	15.6	10.9*
oad Creek		Boise	5380	4/1	24	8.4	13.0	9.2*
obinson Creek Ridge		Weiser	6220	3/28	79	32.5	19.0	21.3* 19.6
ock Flat Summit		Payette	5310	3/31	69	25.3	18.4	40.1*
oland Summit		St. Joe	5120	4/1	98	39.0 15.8	46.4 16.2	40.1
age Creek Saddle		Hayden	4080	3/30 3/31	40 66	23.0	34.3	28.6
avage Pass		Lochsa Little Lost	6170		31	10.0	8.8	8.1
awmill Canyon awtell Mountain			7000 8720	3/29 3/30	137	51.0	48.8	35.1
		Henrys Fork Lemhi			50	13.9	20.3	13.8
chwartz Lake			8540 6090	4/1 3/31	147	60.1	61.0	
chweitzer Basin		Pend Oreille	4800	3/31	97	40.1	38.6	30.9
chweitzer Bowl		Pend Oreille		3/31	137	57.1	54.5	47.8
chweitzer Ridge		Pend Oreille	6200 6520	3/26	107	43.6	46.8	37.2
ecesh Summit		Payette Portneuf	7850	3/20	58	16.8	26.3	
edgwick Peak			7100	4/1	52	17.4		11.4
eventy-Six Creek		Jarbidge-Bruneau	4570	3/29	54	18.2	27.2	27.2
hanghai Summit		Clearwater		3/29 4/1	47	16.4	18.3	13.9
heep Mountain		Willow	6570		10	3.6	15.1	13.8
herwin		St. Maries	3200	3/28 4/1			5.0	5.1
hoshone Basin		Salmon Falls Jordan-Owyhee	5810	4/1 3/26	14 56	4.4 21.5	19.8	15.4
		iordan-ilwwhee	6400	3/26	56	21.5	19.0	13.4
ilver City		. *			0.7	25 5	22 0	
ilver City kitwish Ridge		Coeur d'Alene	5110	3/31	87 48	35.5	33.9	 18.0
ilver City		. *			87 48 122	35.5 14.7 51.8	33.9 22.3 52.8	18.0 48.8

<sup>(</sup>b) 1963-1977, 15 year period. \* Estimated 1963-77 15 Year Average. (A) Aerial observation Water content estimated.

SNOW					THIS YEAR	Y	PAST R	ECDRD
DRAINAGE	BASIN a	nd or SNDW CDURSE		Date	Snow Depth	Water Content	Warer Conte	ent (inches)
NAME	& DRA	INAGE	Elevation	of Survey	(Inches)	(Inches)	Last Year	Average
Somsen Ranch		Willow Creek	6840	3/30	40	13.5	20.6	15.1
South Mountain		Jordan-Owyhee	6500	4/2	70	26.5	19.0	13.0
Squaw Flat		Weiser	6240	3/26	84	33.4	26.8	
Squaw Meadow		Payette	5900	3/26	98	44.7	45.3	37.4
State Line		Teton	6660	3/31	44	15.5	17.4	15.3
Stickney Mill		Big Lost	7430	3/28	52	16.5	13.7	10.6
Strawberry Creek		Mink	5820	3/31	25	9.2	12.7	10.2
Strawberry Mink Div	7ide	Mink	6720	3/27	56	20.5	28.8	21.9
Sturgill Ridge		Weiser	6680	3/28	110	44.4	34.4	32.6*
Sublett		Raft	5950	4/5	43	14.5	16.3	11.1
Succor Creek		Jordan-Owyhee	6100	4/5	41	15.6		5.0
Sulphur Peak		Blackfoot	7070	3/30	40	14.6	19.9	
Sunset		Coeur d'Alene	5540	4/1	79	28.4	37.0	36.2
Swede Peak		Little Wood	7640	4/1	86	29.7	26.0	18.1
Targhee Pass		Henrys Fork	6980	3/30	60	20.1	16.8	17.1*
Telfer Ranch		Fish Creek	5840	4/3	29	12.0	10.3	6.8
Teton Pass W.S.	(Wy)	Teton	7740	3/29	83	29.0	34.7	27.7*
Tex Creek	. , ,	Willow	6650	4/1	32	10.6	13.6	9.7*
Thorson Cabin		Weiser	5320	3/28	54	19.3	21.0	14.3*
Trail Creek	(Mt)	Beaverhead	7090	3/31	24	6.6		
Trinity Mountain	()	Boise	7770	3/28	137	52.6	60.8	43.2
Tripod Summit		Payette	5260	3/27	58	22.4	20.9	19.7
Twelve Mile Creek	(Mt)	Bitterroot	5600	4/1	43	16.7		
Twin Peaks	(/	Salmon	9190	4/1	85	27.5	35.1	28.0
Twin Lakes	(Mt)	Bitterroot	6510	4/1	95	36.3		
Twitchell Canyon	()	Blackfoot	6300	3/31	53	19.7		
Upper Elkhorn		Portneuf	7140	3/27	76	25.5	27.1	19.5*
Upper Home Canyon		Montpelier	8560	3/31	73	23.5	35.2	25.1*
Valley View		Henrys Fork	6680	3/30	63	21.9	19.8	18.4
Vaught Ranch		Owyhee	5830	4/5	0	0.0		1.7*
Vi Pont		Goose	7670	4/5	63	19.8	22.0	15.1*
Vienna Mine		Salmon	8960	3/28	118	43.2	55.6	38.7*
War Eagle		Jordan-Owyhee	7280	4/5	102	40.8		25.1
Webb Creek		Clearwater	4720	3/31	27	8.9	14.4	
Webber Creek		Medicine Lodge	6700	3/28	34	9.8	9.8	
West Branch		Weiser	5560	3/31	87	31.2	29.8	
West Twin		Palouse	4220	3/30	0	0.0	6.1	9.1
Wet Creek Summit		Little Lost	7680	3/30	64	18.7	15.3	13.6
Whiskey Flat		Montpelier	6960	4/1	30	9.8	15.3	9.4
White Elephant		Henrys Fork	7710	3/30	101	35.1	34.4	25.6*
Wildhorse Divide		Portneuf	6490	3/30	53	19.8	25.8	
Williams Creek Summ	ni t	Salmon	7990	3/30	41	10.7	16.7	13.5
Willow Flat		Cub	6070	3/27	38	12.9	19.3	14.8
Wilson Creek	(Nv)	Salmon Falls	7500	4/1	53	18.7	19.7	11.9
Wood Canyon Divide	(111)	Blackfoot	7450	3/30	50	17.0	24.8	- <del>-</del>
MOOR CALLACT DIATE		DIGCKLOOL	6620	3/27	48	17.5	23.0	

			Pillow	Precipitation
			Snow Water	Water Year
Data Site None	Desimons	Data	Equivalent (inches)	(Accumulative)
Data Site Name	Drainage	Date	(Thenes)	(inches)
Atlanta Summit	Boise	4/1	Not Available	46.7
Banner Summit	Payette	4/1	33.9	36.2
Bear Basin	Little Salmon	4/1	28.2	34.3
Bear Canyon	Big Lost	4/1	27.0	30.2 74.6
Bear Mountain	Clark Fork	4/1	Not Available 39.2	38.8
Bear Saddle	Mann Creek	4/1	31.3	30.3
Bennett Mountain	Canyon Creek	4/1	45.4	43.7
Big Creek Summit	Salmon	4/1 4/1	33.5	15.7
Bostetter Ranger Station	Trapper	4/1	26.3	32.7
Cozy Cove	Deadwood Camas-Beaver	3/30	30.3	28.4
Crab Creek		4/1	68.1	52.0
Deadwood Summit	Deadwood	4/1	38.7	37.6
Dollarhide Summit	Big Wood	4/1	42.2	45.8
Elk Butte	Clearwater		31.7	28.3
Emigrant Summit	Bear	4/1	30.2	29.0
Franklin Basin	Cub	4/1	27.2	26.3
Galena	Big Wood	4/1	28.0	30.7
Galena Summit	Big Wood	4/1	21.3	22.4
Garfield Ranger Station	Little Wood	4/1	12.2	11.2
Giveout	Montpelier	4/1	24.0	30.9
Graham Guard Station	Boise	4/2		20.9
Hilts Creek	Little Lost	4/1	22.2 31.5	32.9
Howell Canyon	Marsh Creek	4/1 4/1	10.1	38.8
Humboldt Gulch	Coeur d'Alene		22.5	24.3
Hyndman	Big Wood	4/1	21.0	24.8
Island Park	Henrys Fork	4/1 4/1	40.9	44.0
Jackson Peak	Boise	4/1 4/1	18.1	32.1
Lolo Pass	Lochsa	4/1 4/1	32.4	41.0
Lookout	Coeur d'Alene	4/1 4/1	62.5	58.3
Lost Lake	Clearwater	4/1	34.6	34.8
Lost-Wood Divide	Big Lost	4/1	24.7	25.8
Magic Mountain	Rock Creek	3/31	23.0	21.0
Meadow Lake	Lemhi	4/1	23.1	24.4
Mill Creek Summit	Salmon	4/1	16.6	17.5
Moonshine	Little Lost	4/1	48.9	45.2
Moores Creek Summit	Boise	4/1	19.9	21.4
Moose Creek	North Fork Salmon	4/1	17.1	17.9
Morgan Creek	Salmon	4/1	43.9	48.2
Mosquito Ridge	Coeur d'Alene	4/1	19.2	23.9
Mountain Meadows	Selway	4/1	7.5	14.4
Mud Flat	Owyhee	4/1	12.7	20.3
Oxford Spring	Malad	4/1	0.0	24.2
Prairie	Boise	4/1	23.6	27.0
Savage Pass	Lochsa	4/1	68.0	47.1
Schweitzer Basin	Pend Oreille	4/1	48.7	45.6
Secesh Summit	Payette	4/1	24.2	37.5
Shanghai Summit	Clearwater	4/1	Not Available	19.1
Sheep Mountain	Willow	4/1	4.7	30.0
Sherwin	St. Maries	4/1	18.9	20.2
Slug Creek Divide	Blackfoot	3/30	12.8	15.6
Somsen Ranch	Willow Creek	4/1	34.6	31.0
South Mountain	Jordan-Owyhee	4/1	37.0	41.4
Squaw Flat	Weiser	4/1	15.4	16.0
Stickney Mill	Big Lost	4/1	35.3	35.9
Sunset	Coeur d'Alene	4/1	28.6	31.5
Swede Peak	Little Wood	4/1 4/1	54.7	55.9
Trinity Mountain	Boise	4/1 4/1	46.9	43.0
Vienna Mine	Salmon	4/1 3/27	30.4	37.9
West Branch	Weiser		37.3	39.8
White Elephant	Henrys Fork	4/1 4/1	13.5	26.4
Wildhorse Divide	Portneuf	4/1	10.0	



# INDEX to SNOW COURSES

## UPPER COLUMBIA BASIN LOWER SNAKE BASIN

N.	0	VI	Sec.	Twp.	Rge.	77				Sec.	Twp.	Rge.	71.
No.	Stat	te Name	Tot	or	Long	Elev	No.	State	e Name	Lat.	or And	Long.	Elev
			Lat.	And	Long.							none.	
		KOOTENAI	RIVER						PALOUSE RIV	ER			
16A1	I	Smith Creek	29	64N	3W	4800	16C3	I	East Twin	13	40N	5W	4130
							1602	I	Moscow Mountain	18	40N	4W	4410
		PEND OREILLE-PI	RIEST	RIVER			16C4	I	West Twin	14	40N	5W	4220
16A8S	I	Bear Mountain	9	57N	3E	5400			CLEARWATER I	RIVER			
16A33	I	Benton Meadow	27	58N	4W	2370				_			
16A3	I	Benton Spring	30	58N	3W	4920	15B20	I	Breezy Saddle	1	43N	4E	5010
16A10S	I	Schweitzer Basin	18	58N	2W	6090	15D5 15C3	I	Buck Meadows Cayuse Airstrip	27 4	31N 38N	8E	5650
16A6	I	Schweitzer Bowl	20	58N	2W	4800	15C3 15C7	I	Coolwater Mountain	31	33N	11E 8E	3500 6040
16A5	I	Schweitzer Ridge	19	58N	2W	6200	15C9A	Ī	Crater Meadows	11	37N	9E	5960
							14C11	Ī	Crooked Fork	27	37N	14E	3610
		HAYDEN C	REEK				16C15	I	Elk Butte	6	40N	3E	5550
							15C2A	I	Fish Lake Airstrip	34	35N	11E	5650
16B8	I	Chilco Ridge	15	52N	2W	3650	15B3A	I	Forty-nine Meadows	6	4 3N	5E	4830
16B7	I	Conie Ridge	22	52N	2W	3900	14C9A	I	Goat Lake	3	38N	13E	6500
16B9	I	Corner Creek	22	52N	2W	3150	16C6SR		Hemlock Butte	7	36N	7E	5810
16B6	I	Sage Creek Sadler	10	52N	2W	4080	15C10S		Hoodoo Basin	17	14N	27W	6000
							15C1 14D3	M I	Hoodoo Creek Kit Carson Pasture	16 4	14N 27N	27W 15E	5900 4950
		SPOKANE	RIVER				16C17	I	Kruze Meadows	11	32N	.4M	4780
15B8	Ι	Above Burke	11	48N	5E	4100	14C5S	ī	Lolo Pass	16	38N	15E	5240
15B7	I	Above Roland	35	47N	6E	4350	15B14S		Lost Lake	9	43N	4E	6110
15B6	ī	Below Roland	35	47N	6E	3920	15D6S	I	Mountain Meadows	9	27N	10E	6360
16B2	I	Copper Ridge	6	50N	1W	4820	14D1	M	Nez Perce Pass	25	1S	24W	6570
16B3	I	Fourth of July Summit	6	49N	1W	3200	15CS	I	Pierce Ranger Station	2	36N	5E	3080
15B13A	. I	Granite Peak	4	42N	8E	6000	14C4S	I	Savage Pass	18	36N	15E	6170
15B21S		Humboldt Gulch	2	48N	5E	4250	15C4S	I	Shanghai Summit	7	37N	6E	4600
16B5A 15B2S	I I	Kellog Peak Lookout	19 4	48N 47N	3E 6E	5560 5140	16C18	Ι	Soldier Meadows	33	33N	3W	4650
16B1	I	Lower Sands Creek	32	51N	1W	3120							
16A4AS		Mosquito Ridge	5	54N	2E	5200			SALMON RIVI	R			
15B5A	I	Roland Summit	26	47N	6E	5120							
16C1S	I	Sherwin	28	42N	1E	3200	13E19	I	Above Gilmore	13	13N	26E	8240
16B4	I	Skitwish Ridge	6	50N	1W	4850	13E21A		Aspen-Hall Pass	. 6	16N	28E	8200
15B9AS	I	Sunset	33	49N	5E	5540	16E11S		Bear Basin	30	19N	3E	5350
							15E2S	I	Big Creek Summit	24	15N	5E	6580
							13E8A 16D6	I I	Borah Brundage Mountain	21 6	10N 19N	23E 3E	8250 7560
							13E17	I	Copes Camp	36	18N	22E	7520
							13E25A		Double Springs Pass	3	10N	22E	8400
							13D2	М	Gibbons Pass	4	25	19W	7100
							13E20	I	Hall Creek	1	16N	27E	7560
							13E24A	I	Leatherman Pass	20	9N	23E	9860
							13E1	M	Lemhi Pass	9	10S	15W	7480
							13E23S		Lemhi Ridge	4	10S	15W	8100
							13E18S	I	Meadow Lake	26	13N 13N	26E 17E	9150 8800
							14E1S 13D16S	I	Mill Creek Summit Moose Creek	8 14	27N	21E	6200
							14E4S	I	Morgan Creek	31	18N	19E	7600
							13E26	I	Morse Creek Sawmill	8	15N	23E	7120
							14D5	Î	Perreau Meadows	23	21N	20E	8500
							14E7	I	Redfish Lake Flat	35	10N	13E	6560
							13E16	I	Schwartz Lake	34	18N	22E	8540
							14E3A	I	Twin Peaks	28	15N	17E	9190
							14F4S	I	Vienna Mine	1	5N	13E	8960
							14D4	I	Williams Creek Summit	34	21N	20E	7990

#### LEGEND

10J7	Snow course	only
10J7A	Snow course	and/or aerial marker
10J7S	Snow course	and snotel site
10J7R	Radioactive	gage

9

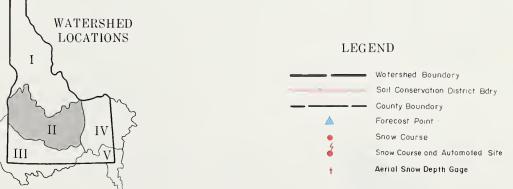
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Payette PAYETTE GEM

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# MIDDLE SNAKE RIVER BASIN NORTHSIDE D A H O SCALE MILES IN BIG CREEK SUMMIT LEMHI MEADOW LAKE H ARK HILTS WE WE BUTTE JEFFERSON MORE Carey C B L A I N E BINGHAM launtain Hame GOODING COLN Ε MINIDOKA ROME WIN ASSIA L L S



# SCS-FORT WORTH, TEXAS 1982 M7-0 L-22023-

## INDEX to SNOW COURSES

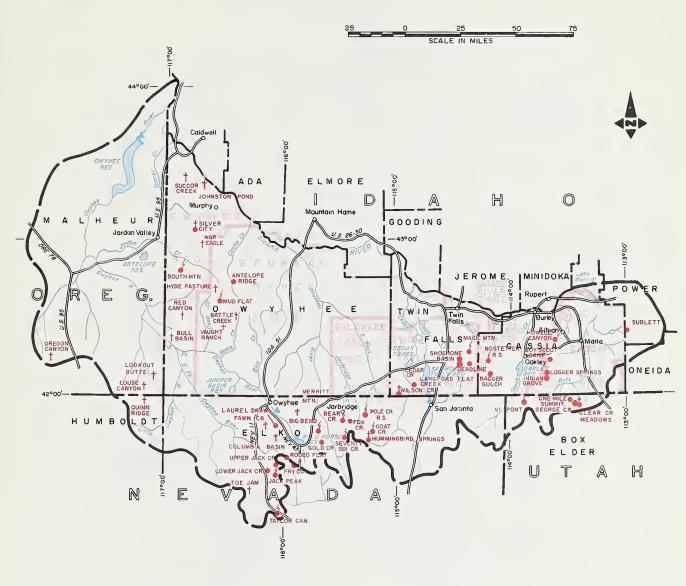
# MIDDLE SNAKE RIVER BASIN NORTHSIDE

			Sec.	Twp.	Rge.					Sec.	Twp.	Rge.	
No.	Sta	te Name	T .	or	V	Elev	No.	Sta	te Name	-	or		Elev
			Lat.	And	Long.		1			Lat.	And	Long.	
		LITTLE LOST	T RIVE	R					BOISE RIVER	(cont.	)		
13E5		Fairview Guard Station	27	12N	26E	6750	14F10	I	Couch Summit	9	2N	14E	6840
13E10S	I		15	8N	25E	8000	16F1	I	Deadman Gulch	29	7N	4E	5600
13E3		Lost-Garfield	3	11N	26E	6600	15F14S	I	Graham Guard Station	9	7N	10E	5690
13E6S	I		31	13N	26E	7440	15F10	I	Idaho City Townsite	26	6N	5E	4000
13E4	I	Sawmill Canyon	17	12N	26E	7000	15E9S	I	Jackson Peak	7	8N	9E	7070
13E7	Ι	Wet Creek Summit	15	8N	25E	7680	15F1S 15F6S	I	Moores Creek Summit	19	7N	7E	6100
							15F65 15F3	I	Prairie	13 5	2N 5N	7E	4800
		BIG LOST	RIVER				15F5S	I	Road Creek Trinity Mountain	6	3N	8E 9E	5380 7770
13F3S	т	Bear Canyon	22	5N	21 E	7900	13133	1	irinity Mountain	О	МС	91	7770
13F35	I		26	6N	21E	7640			CANYON	REEK			
13F20	I	* *	23	3N	23E	7220	1		G71117 G711 G				
13F20 13F8	I		28	4N	23E 22E	9300	15F7S	I	Bennett Mountain	7	2S	9E	6560
13F11		Iron Bog	23	4N	22E	7650	15F12	Ι	Little Camas Flat	21	1S	9E	4940
13F11	I		34	4N	23E	6700	1						
14F3S		Lost Wood Divide	25	6N	18E	7900			PAYETTE R	I V E R			
14F2S		Stickney Mill	9	6N	19E	7430	15E11S	I	Banner Summit	11	11N	10E	7040
14120	_	beleasely mil		024	171	, 430	16F2	Ī	Bogus Basin	16	5N	3E	6340
							15E8S	Ī	Cozy Cove	17	11N	7E	5380
		BIG WOOD	RIVE	₹			15E3	Ī	Crawford Ranger Station	21	14N	4E	4860
15F9	Т	Camas Creeks Divide	11	2S	9E	5710	15E10	Ī	Deadwood Airstrip	8	11N	7E	5360
15F15		Chimney Creek	9	1N	12E	6400	15E4S	Ī	Deadwood Summit	13	14N	7E	6860
14F8S		Dollarhide Summit	9	3N	15E	8420	15E1	Ī	Lake Fork	3	18N	4E	5290
14F1		Galena	4	6N	15E	7440	16E1	Ī	Rock Flat Summit	1	18N	2E	5310
14F6S		Galena Snotel	4	6N	15E	7470	15D1S	Ĩ	Secesh Summit	4	21N	4E	6520
14F12S		Galena Summit	7	6N	15E	8780	15D2	Ī	Squaw Meadow	17	21N	4E	5900
14F5		Graham Ranch	10	5N	17E	6270	16E3	Ī	Tripod Summit	17	11N	3E	5260
14F16S	I		2	4 N	19E	7440							
14F7	I	Mascot Mine	8	4N	20E	7780							
14F9	I	Mount Baldy	23	4N	17E	8920			WEISER RI	√ E R			
14F11	I	Soldier Ranger Station	29	2N	14E	5740	16D1	I	Boulder Creek	16	20N	1W	5440
		J					16E2	Ι	Placer Creek	15	17N -	3W	5860
		LITTLE WOO	D PIV	ED			16E5S	I	Squaw Flat	32	17N	2E	6240
		ETITEE WOO	DICIVI	LIX			16D8S	I	West Branch	15	20N	1W	5560
13F4S	I	Garfield Ranger Station	11	3N	21E	6560							
13F5	I	Muldoon	26	3N	21E	6320			MANN CR	CCV			
13F9S	I	Swede Peak	4	3N	21E	7640			MANN CK	EEK			
							6E10S	I	Bear Saddle	29	15N	5W	6180
		FISH CR	EEK				16E9	I	Mann Creek	20	15N	5W	6080
							17E1	I	Robinson Creek Ridge	2	14N	6W	6220
13F10		Iron Mine Creek	33	3N	23E	6300	16E8	Ι	Sturgill Ridge	28	15N	5W	6680
13F6	I	Telfer Ranch	7	2N	23E	5840	17E2	I	Thorson Cabin	12	14N	6W	5320
		BOISE RI	VER										
15F8		Atlanta Townsite	3	5N	11E	5370							
15F4S		Atlanta Summit	23	5N	10E	7580							
15F2		Bad Bear	35	7N	6E	4940							
16F4	1	Bogus Basin Road	32	5N	3E	5540							

#### LEGEND

10J7	Snow course	only
10J7A	Snow course	and/or aerial marker
10J7S	Snow course	and snotel site
10J7R	Radioactive	gage

# MIDDLE SNAKE RIVER BASIN SOUTHSIDE







# -SCS-FORT WORTH TEXAS 1982 M7-O L-22023

## INDEX to SNOW COURSES

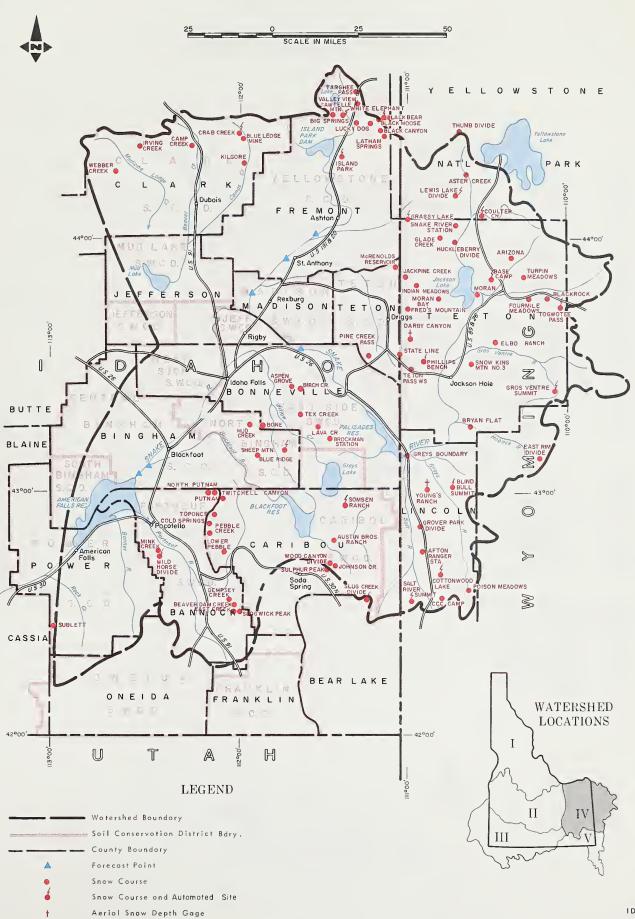
# MIDDLE SNAKE RIVER BASIN SOUTHSIDE

			Sec.	Twp.	Rge.	
No.	State	Name	Lat.	And	Long.	Elevation
		RAFT RIVER				
		1,777				
13G2	I	Boy Scout Gamp	8	14S	24E	7740
13H2	U	Glear Greek Meadows	26	14N	14W	9420
13H5	U	George Greek	26	14N	14W	8840
13G1S 13G4	I	Howell Ganyon	2 14	138	24E	7980
13G4 13G3	I	Indian Grove Logger Springs	2	15S 15S	23E 23E	7560 <b>81</b> 20
13H1	U	One Mile Summit	17	133 14N	14W	7330
12G8	I	Sublett	17	128	30E	5950
		GOOSE - TRAPPER	CREEK			
14G3	I	Badger Gulch	24	15S	19E	6660
14G1S	I	Bostetter Ranger Station	35	14S	19E	7500
13H3A	U	Vi Pont	17	14N	17W	7670
		SALMON FALLS C	REEK			
14G5	I	Gedar Greek	26	15S	13E	6800
14G4	Ĩ	Deadline	25	148	18E	6900
15H13S	N	Goat Creek	31	46N	60E	8880
14G08	I	Langford Flat Greek	8	15S	18E	5980
14G2S	I	Magic Mountain	25	14S	18E	6880
14G6	I	Shoshone Basin	24	14S	17E	5810
15G2	I	Wilson Creek	24	16S	12E	7500
		BRUNEAU RIVE	R			
15H1S	N	Bear Creek	31	46N	58E	8040
15H2	N	Fox Creek	33	46N	58E	6750
15H15	N	Hummingbird Springs	12	45N	59E	8870
15H14S 15H3S	N	Pole Creek Ranger Station Seventy-six Greek	13	46N 44N	59E 58E	8330 7100
		OWYHEE RIVE				
		OW THEE RIVE	K			
16G6	I	Antelope Ridge	3	98	1W	6180
16G9A	I	Battle Creek	10	11S	1E	5720
15H4S	N	Big Bend	30	45N	56E	6700
16G10A	I	Bull Basin	29	12S	5W	5460
16H6A	N	Columbia Basin	31	44N	53E	6650
16H8A 15H7	N N	Fawn Greek Fry Canyon	2 31	45N 43N	52E 54E	70 <b>00</b> 6700
15H5	N	Gold Greek	32	45N	56E	6600
16G5A	I	Hyde Pasture	31	8S	2W	5760
16H4S	N	Jacks Peak	21	42N	53E	8420
16F5A	I	Johnston Pond	5	4S	4W	6700
16H5S	N	Laurel Draw	20	45N	53E	6700
17G6A	0	Lookout Butte	2	40S	47E	5650
17G4A	0	Louse Ganyon	27	40S	44E	6440
16H1M	N	Lower Jack Creek	18	42N	53E	6800
15H2OA	N	Merritt Mountain	10	46N	54E	7000
16G7S	I	Mud Flat	34	98	2W	5730
17G5A 17H6A	O N	Oregon Ganyon	8 9	40S 47N	40E 41E	6950 6300
16G11A	I	Quinn Ridge Red Ganyon	32	11S	4TE 4W	6650
15H6M	N	Rodeo Flat	36	4 3N	53E	6800
16F3	I	Silver Gity	7	58	3W	6400
16G1S	Ī	South Mountain	35	7S	5W	6500
16F6A	I	Succor Creek	25	3s	5W	6100
15H9S	N	Taylor Ganyon	35	39N	53E	6200
16H7A	N	Toe Jam	29	40N	50E	7700
16H2	N	Upper Jack Greek	9	42N	53E	7250
16G12A	I	Vaught Ranch	23	118	1W	5830
16G13A	I	War Eagle	16	5S	3W	7720

#### LEGEND

10J7	Snow course	only
10J7A	Snow course	and/or aerial marker
10J7S	Snow course	and snotel site
10J7R	Radioactive	gage

## UPPER SNAKE RIVER BASIN



# JEDA-SCS-FORT WORTH, TEXAS 1982 M7-O L-22023-4

# INDEX to SNOW COURSES

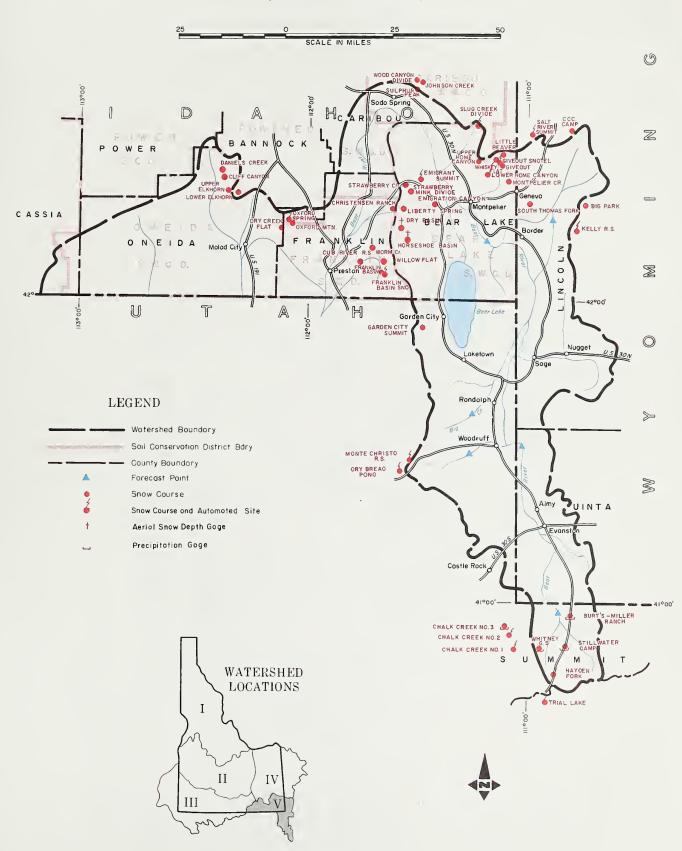
## UPPER SNAKE RIVER BASIN

							1						
			Sec.	Twp.	Rge.					Sec.	Twp.	Rge.	
No.	Stat	te Name	Lat.	And	Long.	Elev	No.	Sta	te Name	Lat.	And	Long.	Elev
			2000		Long.					Luc.	***************************************	Long.	
											1		
		SNAKE RIVER-W	IMOYV	٧G					CAMAS-BEAVE	R CREE	K		
10G4	Wy	Afton Ranger Station	30	32N	118W	6240	11E11	Ι	Blue Ledge Mine	21	13N	38E	6900
10F1	Wy	Arizona	3	46N	115W	6820	12E3	I	Camp Creek	21	13N	36E	6580
10E8	Wy	Aster Creek	44017'		110°38'		11E17S	Ι	Crab Creek	21	13N	38E	6860
10F2S	Wy	Base Camp	20	46N	113W	7030	11E12	Ι	Kilgore	6	12N	39E	6320
10F7S	Wy Wy	Blackrock Blind Bull	4 6	44N 34N	111W 115W	8900 8650			WEDICINE LOD	05.005			
10G2S 10F14	Wy	Bryan Flat	9	38N	115W	6420			MEDICINE LOD	GE CKE	EK		
10G7	Wy	CCC Camp	9	29N	118W	7000	12E4	Ι	Irving Creek	8	13N	33E	7280
10G5S	Wy	Cottonwood Lake	25	31N	118W	7600	12E5	Ι	Webber Creek	23	12N	32E	6700
10E10S	Wy	Coulter Creek	44 <sup>0</sup> 10		110°33'								
10F17	Wy	East Rim Divide	32	37N	111W	7930	İ		WILLOW C	REEK			
10F28 10F6	Wy Wy	Elbo Ranch Four Mile Meadows	25 35	43N 45N	115W 112W	7100 7860	11F10	I	Aspen Grove	36	2N	41E	6500
10E13	Wy	Glade Creek	12	48N	116W	7040	11F3	Ī	Birch Creek	36	2N	41E	6800
10F18	Wy	Greys Boundary	33	37N	118W	5720	11F8	I	Bone	29	1S	40E	6200
10F19S	Wy	Gros Ventre Summit	36	40N	111W	8750	11F16	I	Brockman Station	19	2S	43E	6430
10G3	Wy	Grover Park Divide	27	33N	118W	7000	11F15	I	Lava Creek	27	18	42E	7350
10E14	Wy	Huckleberry Divide	32 44012	48N	115W 110°40'	7300 7850	11F14 11F11S	I	Mud Creek Sheep Mountain	4 30	2S 2S	39E 41E	7100 6570
10E9S 10F4	Wy Wy	Lewis Lake Divide Moran	19	45N	110°40	6750	11F113	I	Tex Creek	36	1N	41E	6650
10F3	Wy	Moran Bay	14	45N	116W	6810	1113	-	Total Or Coll	30			0050
10G6	Wy	Poison Meadows	29	30N	116W	8500			BLACKFOOT	DIVED			
10G8S	Wy	Salt River Summit	32	29N	118W	7700							
10E12	Wy	Snake River Station	9	48N	115W	6920	11G3	Ι	Austin Brothers Ranch	28	7S	43E	6400
10F20 10E7	Wy Wy	Snow King Mountain #3 Thumb Divide	4 44 <sup>0</sup> 22	40N	116W 110°34'	7660 7980	11F17 11G22	I	Blue Ridge Johnson Creek	35 4	2S 9S	39E 43E	6780 6730
10E7	Wy	Togwotee Pass	28	44N	110-34 110W	9580	11G22 11G5S	I	Slug Creek Divide	15	10S	43E 44E	7225
10F5	Wy	Turpin Meadows	14	45N	112W	6900	11G1S	I	Somsen Ranch	25	5S	43E	6800
10G1A	Wy	Young's Ranch	26	34N	116W	6650	11G19	I	Sulphur Peak	8	9S	43E	7070
		HENRY'S FOR	K DIVE	D			11G23	I	Wood Canyon Divide	5	9S	43E	7450
		HENKY'S FOR	KKIVE	K					500T D00TN5		- 0		
11E9	I	Big Springs	4	13N	44E	6400			FORT PORTNE	UF RIVI	E K		
11E35S	M	Black Bear	27	15S	5E	7950	12G7	I	Beaverdam Creek	22	10S	38E	6120
11E18	Ι	Black Canyon	11	13N	45E	7960	12G16	I	Cold Springs	15	7S	37E	7000
11E19 110E158	I S Wy	Black Moose Grassy Lake	33 18	14N 48N	45E 116W	8160 7265	12G5	Ι	Dempsey Creek	. 18	108	38E	6100
11E10S	s wy I	Island Park	28	13N	43E	6290	11G24 12G6	I	East Creek Lower Pebble	26 7	10S 8S	38E 38E	7000 5780
11E16	Ī	Latham Springs	9	13N	45E	7630	12G0 12G1	I	Mink Creek	33	7S	34E	6410
11E14	I	Lucky Dog	2	13N	44E	6860	12G20	Ī	North Putnam	29	5S	37E	7240
11E32	Ι	Sawtell Mountain	7	14N	43E	8720	12G2	I	Pebble Creek	35	7S	37E	6400
11E34	I	Targhee Pass	32	16N	44E	6980	12G14	I	Putnam	2	6S	37E	7220
11E8 11E36S	I	Valley View White Elephant	12 17	15N 14N	43E 43E	6680 7710	11G17	I	Sedgwick Peak	30	108	39E	7850
TIESOS	1.	white Elephant	17	141/	435	//10	12G15 12G19	I	Toponce Twitchell Canyon	23 21	6S 5S	37E 37E	6160 6300
		TETON RI	VER				12G17S	I	Wildhorse Divide	4	8S	34E	6490
10F21A	Wy	Darby Canyon	28	43N	118W	8250							
10F22	Wy	Freds Mountain	12	44N	118W	8000							
10F25	Wy	Indian Meadows	33	46N	117W	8240							
10F26 11F12	Wy I	Jackpine Creek	15 5	46N 7N	118W 46E	7350 6720							
10F23S	Ψy	McRenolds Reservoir Phillips Bench	3°31		46E 110°55'								
11F2	I	Pine Creek Pass	24	3N	44E	6810							
11F1	Ī	State Line	32	3N	46E	6660							
10F24	Wy	Teton W. S.	43 <sup>o</sup> 30	1	110°59'	7740							

#### LEGEND

10J7	Snow course	only
10J7A	Snow course	and/or aerial marker
10J7S	Snow course	and snotel site
10J7R	Radioactive	gage

## GREAT BASIN



## INDEX to SNOW COURSES

### GREAT BASIN

			Sec.	Twp.	Rge.	
No.	State	Name	Lat.	or And	Long.	Elevation
		BEAR RIVE	R			
10G11	Wy	Big Park	7	27N	117W	8620
11H13S 11G7	U I	Dry Bread Pond	19 24	8N 12S	4E 42E	8350 6500
1167 11H7P	U	Emigration Canyon Garden City Summit	35	125 14N	42E 4E	7600
10J6P	Ü	Burts-Miller Ranch	19	3N	10E	7900
10J7P	Ü	Hayden Fork	25	1N	9E	9400
10G12S	Wy	Kelly Ranger Station	1	26N	118W	8200
11H12P	U	Monte Cristo R. S.	4	8N	4E	8960
10G19	Wy	South Thomas Fork	27	27N	119W	7840
10J17P	U	Stillwater Camp	32	2 N	10E	8550
10J28P	U	Whitney G. S.	4	IN	9E	9300
		MONTPELIER C	REEK			
11G16	I	Giveout	2	12S	45E	6840
11G25S	Ī	Giveout Snotel	2	12S	45E	6930
11G2O	I	Little Beaver	27	11S	45E	6970
11G27	I	Lower Home Canyon	17	12S	45E	7640
11G18	I	Montpelier Creek	14	12S	45E	6540
11G26	I	Upper Home Canyon	31	11S	45E	8560
11G21	Ι	Whiskey Flat	26	118	45E	6960
		MINK CREE	K			
11G11	I	Christensen Ranch	27	138	41E	5560
11G14A	I	Dry Basin	30	138	42E	7820
11G6S	I	Emigrant Summit	21	12S	42E	7390
11G15A	I	Horseshoe Basin	31	13S	42E	8000
11G13	I	Liberty Spring	7	138	42E	8600
11G9	I	Strawberry Creek	9	138	41E	5820
11G10	I	Strawberry Mink Divide	14	138	41E	6720
		CUB RIVER	₹			
11G12	I	Cub River Ranger Station	9	158	41E	5450
11G8	I	Franklin Basin	1	16S	41E	8040
11G2S	I	Franklin Basin Sno	7	16S	42E	8170
11G4	I	Willow Flat	11	15S	41E	6070
11G28	I	Worm Creek	28	14S	41E	6620
		MALAD RIVI	E R			
12G13	I	Cliff Canyon	13	12S	35E	7200
12G12	I	Daniels Creek	11	12S	35E	6270
12G4	I	Dry Creek Flat	33	138	37E	6360
12G11	I	Lower Elkhorn	30	128	36E	6960
12G3	I	Oxford Mountain	27	13S	37E	6800
12G18S	I	Oxford Spring	27	138	37E	6740
12G10	I	Upper Elkhorn	25	128	35E	7140

#### LEGEND

Numbering System (example)

10J7 Snow course only
10J7A Snow course and/or aerial marker
10J7S Snow course and snotel site
10J7R Radioactive gage
10J7P Precipitation gage



